

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 3 and 7 in accordance with the following:

1. (ORIGINAL) A communication device comprising:
a transmitter for transmitting an ultra wide band wireless wave pulse;
a plurality of receivers which are disposed equidistant from the transmitter and receive the ultra wide band wireless wave pulse; and
distance-measuring equipment which detects a distance or a direction to an object based on reception times when each of the receivers receives the ultra wide band wireless wave pulse directly from the transmitter and an object-reflected wave thereof.
2. (ORIGINAL) The communication device as claimed in claim 1, wherein communication is performed by the transmitter and the receivers using the ultra wide band wireless wave pulse.
3. (CANCELLED)
4. (ORIGINAL) A communication device comprising:
first communicating means for performing communication using an ultra wide band wireless wave pulse; and
communication controlling means which searches for a second communicating means around the first communicating means and establishes a communication network with the second communicating means.
5. (ORIGINAL) The communication device as claimed in claim 4, wherein the communication controlling means establishes a communication network with a third communicating means which is located out of a communication area of the first communicating means but is located within the communication area of the second communicating means with which communication has been established.

6. (ORIGINAL) A communication system comprising:

a plurality of communication devices, each of which is able to establish communication with another communication device located within a predetermined area by searching for the other communication device located within the predetermined area, wherein communication with yet another communication device located out of the predetermined area is established via a communicating device located within the predetermined area.

7. (CANCELLED)

8. (ORIGINAL) A communication system comprising:

a detector including a transmitter which transmits a response request using an ultra wide band wireless wave pulse; a plurality of receivers which are disposed equidistant from the transmitter and receive the ultra wide band wireless wave pulse; and distance-measuring equipment which detects a distance or a direction to an object based on reception times when each of receivers receives the ultra wide band wireless wave pulse directly from the transmitter and an object-reflected wave thereof; and

a response device including a receiver which is installed on the object and receives the ultra wide band wireless wave pulse transmitted from the transmitter of the detector; and a transmitter which transmits a response request using another ultra wide band wireless wave pulse in response to the reception of the ultra wide band wireless wave pulse from the detector by the receiver of the response device.